

**METHODS AND SYSTEMS FOR INTERLEAVING DATA FROM
MULTI-RATE CHANNELS INTO A SINGLE INTERFACE**

ABSTRACT

[0035] Disclosed are systems and methods for interleaving data in a multi-channel multi-rate telecommunications network. The invention provides for identifying channels having data in readiness for transmission and systematically polling such channels. The invention provides interleaving management which permits the changing of data rates and activation or deactivation of channels without major disruptions. The polling order of active channels is determined according to a state machine providing at least one state for each data rate supported by the plurality of channels.

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